



Novel Albumins_ST25.txt
SEQUENCE LISTING

<110> Berezenko, Stephen
Sadler, Peter J.
Stewart, Alan J.
Blindauer, Claudia
Bunyan, Kerry E.

<120> NOVEL ALBUMINS

<130> 63572-5001-US

<140> US 10/523,312

<141> 2005-01-26

<150> GB217347.4

<151> 2002-07-26

<160> 12

<170> PatentIn version 3.4

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<212> PRT

<213> Artificial Sequence

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<223> Human hepatocytes cell lines were treated with rHA or His67Ala mutant albumin to study

their effects on the human hepatocyte cell culture. The cell line used was WRL-68.

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Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys
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Ser Leu Xaa Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu
 65 70 75 80

Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro
 85 90 95

Glu Arg Xaa Xaa Cys Phe Xaa Gln His Lys Asp Asp Asn Pro Asn Leu
 100 105 110

Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His
 115 120 125

Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg
 130 135 140

Arg Xaa Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg
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Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala
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Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser
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Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu
195 200 205

Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro
210 215 220

Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys
225 230 235 240

Val Xaa Thr Glu Cys Cys Xaa Xaa Xaa Leu Leu Glu Cys Ala Asp Asp
245 250 255

Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser
260 265 270

Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser Xaa
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Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg
325 330 335

Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr
340 345 350

Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu
355 360 365

Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro
370 375 380

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Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys
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Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His
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Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser
465 470 475 480

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485 490 495

Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp
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Lys Leu Val Asn Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp
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130 135 140

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180 185 190

Cys Gln Ala Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Leu Asp Glu
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225 230 235 240

Ala Arg Leu Ser Gln Arg Phe Pro Lys Ala Glu Phe Ala Glu Val Ser
245 250 255

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260 265 270

Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile
275 280 285

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 325 330 335
 Lys Asp Val Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe Leu Gly
 340 345 350
 Met Phe Leu Tyr Glu Tyr Ala Arg Arg His Pro Asp Tyr Ser Val Val
 355 360 365
 Leu Leu Leu Arg Leu Ala Lys Thr Tyr Glu Thr Thr Leu Glu Lys Cys
 370 375 380
 Cys Ala Ala Ala Asp Pro His Glu Cys Tyr Ala Lys Val Phe Asp Glu
 385 390 395 400
 Phe Lys Pro Leu Val Glu Glu Pro Gln Asn Leu Ile Lys Gln Asn Cys
 405 410 415
 Glu Leu Phe Glu Gln Leu Gly Glu Tyr Lys Phe Gln Asn Ala Leu Leu
 420 425 430
 Val Arg Tyr Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val
 435 440 445
 Glu Val Ser Arg Asn Leu Gly Lys Val Gly Ser Lys Cys Cys Lys His
 450 455 460
 Pro Glu Ala Lys Arg Met Pro Cys Ala Glu Asp Tyr Leu Ser Val Val
 465 470 475 480
 Leu Asn Gln Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Asp Arg
 485 490 495
 Val Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe
 500 505 510
 Ser Ala Leu Glu Val Asp Glu Thr Tyr Val Pro Lys Glu Phe Asn Ala
 515 520 525
 Glu Thr Phe Thr Phe His Ala Asp Ile Cys Thr Leu Ser Glu Lys Glu
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Arg Gln Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Val Lys His Lys
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35 40 45

Gln Cys Pro Phe Glu Glu His Val Lys Leu Val Asn Glu Val Thr Glu
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Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys
65 70 75 80

Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu
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Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro
100 105 110

Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu
115 120 125

Pro Pro Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His
130 135 140

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Asp Asn Glu Ala Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Val Ala Arg
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 Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Ala Arg
 165 170 175
 Tyr Lys Ala Ala Phe Ala Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala
 180 185 190
 Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser
 195 200 205
 Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Asp
 210 215 220
 Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Lys Phe Pro
 225 230 235 240
 Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys
 245 250 255
 Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp
 260 265 270
 Arg Ala Asp Leu Ala Lys Tyr Met Cys Glu Asn Gln Asp Ser Ile Ser
 275 280 285
 Ser Lys Leu Lys Glu Cys Cys Asp Lys Pro Leu Leu Glu Lys Ser His
 290 295 300
 Cys Leu Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser
 305 310 315 320
 Leu Ala Ala Asp Tyr Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala
 325 330 335
 Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg
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 Arg His Pro Asp Tyr Ser Val Met Leu Leu Leu Arg Leu Ala Lys Ala
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 Tyr Glu Ala Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu
 370 375 380
 Cys Tyr Ala Lys Val Phe Asp Glu Phe Gln Pro Leu Val Glu Glu Pro

385 390 395 400

Asp Arg Asn Glu Cys Phe Leu Ala His Lys Asp Asp Asn Pro Gly Phe
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Ala	Pro	Glu	Leu
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Gly	Asp	Met	Ala
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Phe	Ala	Glu	Cys
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Cys	Gln	Ala	Ala
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Leu	Ser	Ser	Ala
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Arg	Phe	Lys	Cys
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Ala	Trp	Ser	Val
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Ala	Glu	Ile	Ser
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 Cys Glu Asn Gln Asp Ser Ile Ser Thr Lys Leu Lys Glu Cys Cys Asp
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 325 330 335
 Lys Glu Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Val Phe Leu Gly
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 385 390 395 400
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 Glu Leu Phe Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Leu
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 Val Arg Tyr Thr Lys Lys Ala Pro Gln Val Ser Thr Pro Thr Leu Val
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Lys Leu Cys Thr Val Ala Ser Leu Arg Asp Lys Tyr Gly Glu Met Ala
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Novel Albumins_ST25.txt

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260 265 270

Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile
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Cys Glu Asn Gln Asp Ser Ile Ser Thr Lys Leu Lys Glu Cys Cys Gly
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370 375 380

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 Val Arg Tyr Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val
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 Glu Val Ser Arg Ser Leu Gly Lys Val Gly Ser Lys Cys Cys Thr His
 450 455 460
 Pro Glu Ala Glu Arg Leu Ser Cys Ala Glu Asp Tyr Leu Ser Val Val
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 485 490 495
 Val Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe
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 Ser Ala Leu Gln Val Asp Glu Thr Tyr Val Pro Lys Glu Phe Ser Ala
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 Glu Thr Phe Thr Phe His Ala Asp Leu Cys Thr Leu Pro Glu Ala Glu
 530 535 540
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 Pro Lys Ala Thr Glu Glu Gln Leu Lys Thr Val Met Gly Asp Phe Gly
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Gln Ala Glu Asp Lys Gly Ala Cys Leu Leu Pro Lys Ile Glu Thr Met
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Arg Glu Lys Val Leu Ala Ser Ser Ala Arg Gln Arg Leu Arg Cys Ala
210 215 220

Ser Ile Gln Lys Phe Gly Glu Arg Ala Leu Lys Ala Trp Ser Val Ala
225 230 235 240

Arg Leu Ser Gln Lys Phe Pro Lys Ala Glu Phe Val Glu Val Thr Lys
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250

245

255

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Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys
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Asp Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Ala Phe Leu Gly Ser
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355 360 365

Leu Leu Arg Leu Ala Lys Glu Tyr Glu Ala Thr Leu Glu Glu Cys Cys
370 375 380

Ala Lys Asp Asp Pro His Ala Cys Tyr Ser Thr Val Phe Asp Lys Leu
385 390 395 400

Lys His Leu Val Asp Glu Pro Gln Asn Leu Ile Lys Gln Asn Cys Asp
405 410 415

Gln Phe Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val
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Arg Tyr Thr Arg Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu
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Val Ser Arg Ser Leu Gly Lys Val Gly Thr Arg Cys Cys Thr Lys Pro
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Leu Phe Thr Phe His Ala Asp Ile Cys Thr Leu Pro Asp Thr Glu Lys
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545 550 555 560

Lys Ala Thr Glu Glu Gln Leu Lys Thr Val Met Glu Asn Phe Val Ala
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Lys Leu Val Lys Glu Leu Thr Glu Phe Ala Lys Thr Cys Val Ala Asp
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Glu Leu Cys Lys Val Ala Thr Leu Arg Glu Thr Tyr Gly Asp Met Ala
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Novel Albumins_ST25.txt

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Thr Leu Cys Ala Glu Phe Lys Ala Asp Glu Lys Lys Phe Trp Gly Lys
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Tyr Leu Tyr Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu
165 170 175

Leu Leu Tyr Tyr Ala Asn Lys Tyr Asn Gly Val Phe Gln Glu Cys Cys
180 185 190

Gln Ala Glu Asp Lys Gly Ala Cys Leu Leu Pro Lys Ile Asp Ala Met
195 200 205

Arg Glu Lys Val Leu Ala Ser Ser Ala Arg Gln Arg Leu Arg Cys Ala
210 215 220

Ser Ile Gln Lys Phe Gly Glu Arg Ala Leu Lys Ala Trp Ser Val Ala
225 230 235 240

Arg Leu Ser Gln Lys Phe Pro Lys Ala Asp Phe Thr Asp Val Thr Lys
245 250 255

Ile Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly Asp
260 265 270

Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys
275 280 285

Asp His Gln Asp Ala Leu Ser Ser Lys Leu Lys Glu Cys Cys Asp Lys
290 295 300

Pro Val Leu Glu Lys Ser His Cys Ile Ala Glu Val Asp Lys Asp Ala
305 310 315 320

Val Pro Glu Asn Leu Pro Pro Leu Thr Ala Asp Phe Ala Glu Asp Lys
325 330 335

Glu Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Val Phe Leu Gly Ser
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Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ala Val Ser Val
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 Ala Lys Glu Asp Pro His Ala Cys Tyr Ala Thr Val Phe Asp Lys Leu
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 Lys His Leu Val Asp Glu Pro Gln Asn Leu Ile Lys Lys Asn Cys Glu
 405 410 415
 Leu Phe Glu Lys His Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val
 420 425 430
 Arg Tyr Thr Arg Lys Ala Pro Gln Val Ser Thr Pro Thr Leu Val Glu
 435 440 445
 Ile Ser Arg Ser Leu Gly Lys Val Gly Thr Lys Cys Cys Ala Lys Pro
 450 455 460
 Glu Ser Glu Arg Met Pro Cys Thr Glu Asp Tyr Leu Ser Leu Ile Leu
 465 470 475 480
 Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys Val
 485 490 495
 Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser
 500 505 510
 Asp Leu Thr Leu Asp Glu Thr Tyr Val Pro Lys Pro Phe Asp Glu Lys
 515 520 525
 Phe Phe Thr Phe His Ala Asp Ile Cys Thr Leu Pro Asp Thr Glu Lys
 530 535 540
 Gln Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Leu Lys His Lys Pro
 545 550 555 560
 Lys Ala Thr Asp Glu Gln Leu Lys Thr Val Met Glu Asn Phe Val Ala
 565 570 575
 Phe Val Asp Lys Cys Cys Ala Ala Asp Asp Lys Glu Gly Cys Phe Val
 580 585 590
 Leu Glu Gly Pro Lys Leu Val Ala Ser Thr Gln Ala Ala Leu Ala
 595 600 605

<210> 8
 <211> 605

Novel Albumins_ST25.txt

<212> PRT

<213> Sus scrofa

<400> 8

Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala Tyr Ser
1 5 10 15

Arg Gly Val Phe Arg Arg Asp Thr Tyr Lys Ser Glu Ile Ala His Arg
20 25 30

Phe Lys Asp Leu Gly Glu Gln Tyr Phe Lys Gly Leu Val Leu Ile Ala
35 40 45

Phe Ser Gln His Leu Gln Gln Cys Pro Tyr Glu Glu His Val Lys Leu
50 55 60

Val Arg Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp Glu Ser
65 70 75 80

Ala Glu Asn Cys Asp Lys Ser Ile His Thr Leu Phe Gly Asp Lys Leu
85 90 95

Cys Ala Ile Pro Ser Leu Arg Glu His Tyr Gly Asp Leu Ala Asp Cys
100 105 110

Cys Glu Lys Glu Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln His Lys
115 120 125

Asn Asp Asn Pro Asp Ile Pro Lys Leu Lys Pro Asp Pro Val Ala Leu
130 135 140

Cys Ala Asp Phe Gln Glu Asp Glu Gln Lys Phe Trp Gly Lys Tyr Leu
145 150 155 160

Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu
165 170 175

Tyr Tyr Ala Ile Ile Tyr Lys Asp Val Phe Ser Glu Cys Cys Gln Ala
180 185 190

Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Ile Glu His Leu Arg Glu
195 200 205

Lys Val Leu Thr Ser Ala Ala Lys Gln Arg Leu Lys Cys Ala Ser Ile
210 215 220

Gln Lys Phe Gly Glu Arg Ala Phe Lys Ala Trp Ser Leu Ala Arg Leu
225 230 235 240

Novel Albumins_ST25.txt

Ser Gln Arg Phe Pro Lys Ala Asp Phe Thr Glu Ile Ser Lys Ile Val
245 250 255

Thr Asp Leu Ala Lys Val His Lys Glu Cys Cys His Gly Asp Leu Leu
260 265 270

Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn
275 280 285

Gln Asp Thr Ile Ser Thr Lys Leu Lys Glu Cys Cys Asp Lys Pro Leu
290 295 300

Leu Glu Lys Ser His Cys Ile Ala Glu Ala Lys Arg Asp Glu Leu Pro
305 310 315 320

Ala Asp Leu Asn Pro Leu Glu His Asp Phe Val Glu Asp Lys Glu Val
325 330 335

Cys Lys Asn Tyr Lys Glu Ala Lys Asp Val Phe Leu Gly Thr Phe Leu
340 345 350

Tyr Glu Tyr Ser Arg Arg His Pro Asp Tyr Ser Val Ser Leu Leu Leu
355 360 365

Arg Ile Ala Lys Ile Tyr Glu Ala Thr Leu Glu Asp Cys Cys Ala Lys
370 375 380

Glu Asp Pro Pro Ala Cys Tyr Ala Thr Val Phe Asp Lys Phe Gln Pro
385 390 395 400

Leu Val Asp Glu Pro Lys Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe
405 410 415

Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val Arg Tyr
420 425 430

Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu Val Ala
435 440 445

Arg Lys Leu Gly Leu Val Gly Ser Arg Cys Cys Lys Arg Pro Glu Glu
450 455 460

Glu Arg Leu Ser Cys Ala Glu Asp Tyr Leu Ser Leu Val Leu Asn Arg
465 470 475 480

Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys Val Thr Lys

Novel Albumins_ST25.txt
490

485

495

Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu
500 505 510

Thr Pro Asp Glu Thr Tyr Lys Pro Lys Glu Phe Val Glu Gly Thr Phe
515 520 525

Thr Phe His Ala Asp Leu Cys Thr Leu Pro Glu Asp Glu Lys Gln Ile
530 535 540

Lys Lys Gln Thr Ala Leu Val Glu Leu Leu Lys His Lys Pro His Ala
545 550 555 560

Thr Glu Glu Gln Leu Arg Thr Val Leu Gly Asn Phe Ala Ala Phe Val
565 570 575

Gln Lys Cys Cys Ala Ala Pro Asp His Glu Ala Cys Phe Ala Val Glu
580 585 590

Gly Pro Lys Phe Val Ile Glu Ile Arg Gly Ile Leu Ala
595 600 605

<210> 9
<211> 608
<212> PRT
<213> Oryctolagus cuniculus

<400> 9

Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala
1 5 10 15

Tyr Ser Arg Gly Val Phe Arg Glu Ser Ala His Lys Ser Glu Ile Ala
20 25 30

His Arg Phe Asn Asp Val Gly Glu Glu His Phe Ile Gly Leu Val Leu
35 40 45

Ile Thr Phe Ser Gln Tyr Leu Gln Lys Cys Pro Tyr Glu Glu His Ala
50 55 60

Lys Leu Val Lys Glu Val Thr Asp Leu Ala Lys Ala Cys Val Ala Asp
65 70 75 80

Glu Ser Ala Ala Asn Cys Asp Lys Ser Leu His Asp Ile Phe Gly Asp
85 90 95

Lys Ile Cys Ala Leu Pro Ser Leu Arg Asp Thr Tyr Gly Asp Val Ala

Novel Albumins_ST25.txt
105 110

100

Asp Cys Cys Glu Lys Lys Glu Pro Glu Arg Asn Glu Cys Phe Leu His
115 120 125

His Lys Asp Asp Lys Pro Asp Leu Pro Pro Phe Ala Arg Pro Glu Ala
130 135 140

Asp Val Leu Cys Lys Ala Phe His Asp Asp Glu Lys Ala Phe Phe Gly
145 150 155 160

His Tyr Leu Tyr Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro
165 170 175

Glu Leu Leu Tyr Tyr Ala Gln Lys Tyr Lys Ala Ile Leu Thr Glu Cys
180 185 190

Cys Glu Ala Ala Asp Lys Gly Ala Cys Leu Thr Pro Lys Leu Asp Ala
195 200 205

Leu Glu Gly Lys Ser Leu Ile Ser Ala Ala Gln Glu Arg Leu Arg Cys
210 215 220

Ala Ser Ile Gln Lys Phe Gly Asp Arg Ala Tyr Lys Ala Trp Ala Leu
225 230 235 240

Val Arg Leu Ser Gln Arg Phe Pro Lys Ala Asp Phe Thr Asp Ile Ser
245 250 255

Lys Ile Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly
260 265 270

Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Met
275 280 285

Cys Glu His Gln Glu Thr Ile Ser Ser His Leu Lys Glu Cys Cys Asp
290 295 300

Lys Pro Ile Leu Glu Lys Ala His Cys Ile Tyr Gly Leu His Asn Asp
305 310 315 320

Glu Asp Thr Ala Gly Leu Pro Ala Val Ala Glu Glu Phe Val Glu Asp
325 330 335

Lys Asp Val Cys Lys Asn Tyr Glu Glu Ala Lys Asp Leu Phe Leu Gly
340 345 350

Novel Albumins_ST25.txt

Lys Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Asp Tyr Ser Val Val
355 360 365

Leu Leu Leu Arg Leu Gly Lys Ala Tyr Glu Ala Thr Leu Lys Lys Cys
370 375 380

Cys Ala Thr Asp Asp Pro His Ala Cys Tyr Ala Lys Val Leu Asp Glu
385 390 395 400

Phe Gln Pro Leu Val Asp Glu Pro Lys Asn Leu Val Lys Gln Asn Cys
405 410 415

Glu Leu Tyr Glu Gln Leu Gly Asp Tyr Asn Phe Gln Asn Ala Leu Leu
420 425 430

Val Arg Tyr Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val
435 440 445

Glu Ile Ser Arg Ser Leu Gly Lys Val Gly Ser Lys Cys Cys Lys His
450 455 460

Pro Glu Ala Glu Arg Leu Pro Cys Val Glu Asp Tyr Leu Ser Val Val
465 470 475 480

Leu Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys
485 490 495

Val Thr Lys Cys Cys Ser Glu Ser Leu Ser Asn Arg Arg Pro Cys Phe
500 505 510

Ser Ala Leu Gly Pro Asp Glu Thr Tyr Val Pro Lys Glu Phe Asn Ala
515 520 525

Glu Thr Phe Thr Phe His Ala Asp Ile Cys Thr Leu Pro Glu Thr Glu
530 535 540

Arg Lys Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Val Lys His Lys
545 550 555 560

Pro His Ala Thr Asn Asp Gln Leu Lys Thr Val Val Gly Glu Phe Thr
565 570 575

Ala Leu Leu Asp Lys Cys Cys Ser Ala Glu Asp Lys Glu Ala Cys Phe
580 585 590

Ala Val Glu Gly Pro Lys Leu Val Glu Ser Ser Lys Ala Thr Leu Gly
595 600 605

Novel Albumins_ST25.txt

<210> 10
 <211> 608
 <212> PRT
 <213> Rattus norvegicus

<400> 10

Met Lys Trp,Val Thr Phe Leu Leu Leu Leu Phe Ile Ser Gly Ser Ala
 1 5 10 15

Phe Ser Arg Gly Val Phe Arg Arg Glu Ala His Lys Ser Glu Ile Ala
 20 25 30

His Arg Phe Lys Asp Leu Gly Glu Gln His Phe Lys Gly Leu Val Leu
 35 40 45

Ile Ala Phe Ser Gln Tyr Leu Gln Lys Cys Pro Tyr Glu Glu His Ile
 50 55 60

Lys Leu Val Gln Glu Val Thr Asp Phe Ala Lys Thr Cys Val Ala Asp
 65 70 75 80

Glu Asn Ala Glu Asn Cys Asp Lys Ser Ile His Thr Leu Phe Gly Asp
 85 90 95

Lys Leu Cys Ala Ile Pro Lys Leu Arg Asp Asn Tyr Gly Glu Leu Ala
 100 105 110

Asp Cys Cys Ala Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln
 115 120 125

His Lys Asp Asp Asn Pro Asn Leu Pro Pro Phe Gln Arg Pro Glu Ala
 130 135 140

Glu Ala Met Cys Thr Ser Phe Gln Glu Asn Pro Thr Ser Phe Leu Gly
 145 150 155 160

His Tyr Leu His Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro
 165 170 175

Glu Leu Leu Tyr Tyr Ala Glu Lys Tyr Asn Glu Val Leu Thr Gln Cys
 180 185 190

Cys Thr Glu Ser Asp Lys Ala Ala Cys Leu Thr Pro Lys Leu Asp Ala
 195 200 205

Val Lys Glu Lys Ala Leu Val Ala Ala Val Arg Gln Arg Met Lys Cys
 210 215 220

Novel Albumins_ST25.txt

Ser Ser Met Gln Arg Phe Gly Glu Arg Ala Phe Lys Ala Asn Ala Val
225 230 235 240

Ala Arg Met Ser Gln Arg Phe Pro Asn Ala Glu Phe Ala Glu Ile Thr
245 250 255

Lys Leu Ala Thr Asp Val Thr Lys Ile Asn Lys Glu Cys Cys His Gly
260 265 270

Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Glu Leu Ala Lys Tyr Met
275 280 285

Cys Glu Asn Gln Ala Thr Ile Ser Ser Lys Leu Gln Ala Cys Cys Asp
290 295 300

Lys Pro Val Leu Gln Lys Ser Gln Cys Leu Ala Glu Thr Glu His Asp
305 310 315 320

Asn Ile Pro Ala Asp Leu Pro Ser Ile Ala Ala Asp Phe Val Glu Asp
325 330 335

Lys Glu Val Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe Leu Gly
340 345 350

Thr Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Asp Tyr Ser Val Ser
355 360 365

Leu Leu Leu Arg Leu Ala Lys Lys Tyr Glu Ala Thr Leu Glu Lys Cys
370 375 380

Cys Ala Glu Gly Asp Pro Pro Ala Cys Tyr Gly Thr Val Leu Ala Glu
385 390 395 400

Phe Gln Pro Leu Val Glu Glu Pro Lys Asn Leu Val Lys Thr Asn Cys
405 410 415

Glu Leu Tyr Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Val Leu
420 425 430

Val Arg Tyr Thr Gln Lys Ala Pro Gln Val Ser Thr Pro Thr Leu Val
435 440 445

Glu Ala Ala Arg Asn Leu Gly Arg Val Gly Thr Lys Cys Cys Thr Leu
450 455 460

Pro Glu Ala Gln Arg Leu Pro Cys Val Glu Asp Tyr Leu Ser Ala Ile
465 470 475 480

Novel Albumins_ST25.txt

Leu Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys
485 490 495

Val Thr Lys Cys Cys Ser Gly Ser Leu Val Glu Arg Arg Pro Cys Phe
500 505 510

Ser Ala Leu Thr Val Asp Glu Thr Tyr Val Pro Lys Glu Phe Lys Ala
515 520 525

Glu Thr Phe Thr Phe His Ser Asp Ile Cys Thr Leu Pro Asp Lys Glu
530 535 540

Lys Gln Ile Lys Lys Gln Thr Ala Leu Ala Glu Leu Val Lys His Lys
545 550 555 560

Pro Lys Ala Thr Glu Asp Gln Leu Lys Thr Val Met Gly Asp Phe Ala
565 570 575

Gln Phe Val Asp Lys Cys Cys Lys Ala Ala Asp Lys Asp Asn Cys Phe
580 585 590

Ala Thr Glu Gly Pro Asn Leu Val Ala Arg Ser Lys Glu Ala Leu Ala
595 600 605

<210> 11
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide-directed mutagenesis was used to prepare cDNAs encoding the H67A

mutated form of albumin. The mutagenic oglinucleotide, supplied by Delta Biotechnology Ltd.

in Nottingham, Massachusetts, that was used is listed below.

<400> 11
gctgaaattg tgacaaatca cttgctaccc tttttggaga caaattatgc 50

<210> 12
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide-directed mutagenesis was used to prepare cDNAs encoding the H67A

mutated form of albumin. The mutagenic oglinucleotide, supplied by Delta Biotechnology Ltd.

Novel Albumins_ST25.txt

in Nottingham, Massachusetts, that was used is listed below.

<400> 12

gcataatttg tctccaaaaa gggtagcaag tgatttgtca caattttcag c

51